What is claimed is:

1	1. An apparatus for locating on an optical fiber cable a fault where a
2	cable locating current is leaking to ground, the apparatus comprising:
3	a body adapted to be positioned adjacent the cable;
4	at least one voltage probe mounted in the body and positioned in the body
5	to probe the leaking cable locating current;
6	a reference voltage input for receiving a reference voltage; and
7	a voltage comparator electrically connected to the at least one voltage
8	probe and to the reference voltage input, the comparator configured for measuring a test
9	voltage between the reference voltage and the at least one voltage probe.
1	2. The apparatus of claim 1, wherein the body is further adapted to at
2	least partially surround a transverse section of the cable.
1	3. The apparatus of claim 2, wherein the at least one voltage probe
2	comprises a plurality of voltage probes angularly spaced around the transverse section of
3	the cable.
1	4. The apparatus of claim 1, wherein the at least one voltage probe
2	presents a conductive surface facing the cable.
1	5. The apparatus of claim 1, wherein the reference voltage is ground.
1	6. The apparatus of claim 1, wherein the reference voltage is a DC
2	voltage applied to the cable.

is leaking to g	pround, the method comprising the steps of: positioning a voltage probe adjacent the cable; applying a conductive medium between the cable and the voltage probe;
	applying a conductive medium between the cable and the voltage probe;
	displacing the voltage probe along the cable;
	measuring a voltage between the voltage probe and a reference voltage;
and	·
	based on the voltage, detecting the fault at a position of the voltage probe
along the cabl	e.
	8. The method of claim 7, wherein the conductive medium is water.
	9. The method of claim 7, wherein the conductive medium is a water-
based paste.	
	10. The method of claim 7, wherein the conductive medium is a gel.
	11. The method of claim 7, wherein the voltage probe comprises a
plurality of co	onductive surfaces facing the cable.
	12. The method of claim 11, wherein the step of positioning a voltage
probe adjacen	t the cable includes at least partially surrounding the cable with the voltage
probe.	
	along the cable based paste. plurality of comprobe adjacent

1	13. The method of claim 12, wherein the step of displacing the voltage		
2	probe along the cable comprises maintaining the probe in a position at least partially		
3	surrounding the cable.		
1	14. The method of claim 7, wherein the step of measuring a voltage		
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2	between the voltage probe and a reference voltage includes measuring a voltage between		
3	the voltage probe and ground.		
1	15. The method of claim 7, further comprising the step of applying a		
2	reference DC voltage to the cable, and wherein the step of measuring a voltage between		
3	the voltage probe and a reference voltage includes measuring a voltage between the		
4	voltage probe and the reference DC voltage.		
1	16. The method of claim 7, further comprising the step of sounding an		
2	alarm when the fault is detected.		
1	17. The method of claim 7, further comprising the step of initially		
2	determining an approximate position of the fault by determining a position along the		
3	cable where an above-ground detectability of the cable locating current degrades.		
1	18. The method of claim 7, wherein the step of detecting the fault		
2	comprises detecting a drop in the measured voltage.		
1	19. The method of claim 7, wherein the step of detecting the fault		
2	comprises detecting an increase in the measured voltage.		